

Title (en)
SLIDING MEMBER

Title (de)
GLEITELEMENT

Title (fr)
ÉLÉMENT DE COULISSEMENT

Publication
EP 3653913 A4 20210317 (EN)

Application
EP 18831037 A 20180711

Priority
• JP 2017137470 A 20170713
• JP 2018026107 W 20180711

Abstract (en)
[origin: EP3653913A1] [Technical Problem] An object is to provide sliding components with which a temperature can be lowered by reducing a friction loss of a sliding portion and improving a cooling performance even when the sliding components are used at high speed.[Solution to Problem] A pair of sliding components having sliding faces S that slide with respect to each other includes fluid introduction portions 22 having opening portions 22a at a predetermined circumferential interval Y on a peripheral surface on the high pressure fluid side of the sliding face S, the fluid introduction portions extending in the radial direction, and Rayleigh step mechanisms including extremely shallow grooves 11 that communicate with the fluid introduction portions 22 and extend in the circumferential direction, wherein circumferential width X of the opening portions 22a of the fluid introduction portions 22 is larger than radial width Z of the fluid introduction portions 22.

IPC 8 full level
F16J 15/34 (2006.01); **F16C 17/04** (2006.01)

CPC (source: EP US)
F16C 17/04 (2013.01 - EP); **F16C 17/102** (2013.01 - US); **F16C 33/1065** (2013.01 - US); **F16H 15/32** (2013.01 - US); **F16J 15/34** (2013.01 - US); **F16J 15/3412** (2013.01 - US); **F16J 15/342** (2013.01 - EP); **F16J 15/3424** (2013.01 - EP US)

Citation (search report)
• [X] EP 2990700 A1 20160302 - EAGLE IND CO LTD [JP]
• [XI] WO 2016167262 A1 20161020 - EAGLE IND CO LTD [JP] & EP 3284981 A1 20180221 - EAGLE IND CO LTD [JP]
• See references of WO 2019013233A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3653913 A1 20200520; **EP 3653913 A4 20210317**; CN 110832235 A 20200221; CN 110832235 B 20220712;
JP WO2019013233 A1 20200709; US 2021048062 A1 20210218; WO 2019013233 A1 20190117

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EP 18831037 A 20180711; CN 201880041417 A 20180711; JP 2018026107 W 20180711; JP 2019529750 A 20180711;
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